Seat No.: _____ Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY B.PHARM - SEMESTER - 7 EXAMINATION - SUMMER -2019

Subject Code: 2270003 Date: 13-05-2019
Subject Name: Pharmaceutical Chemistry – IX (Medicinal Chemistry - III)
Time: 02:30 PM TO 05:30 PM
Instructions:

- 1. Attempt any five questions.
- 2. Make suitable assumptions wherever necessary.
- 3. Figures to the right indicate full marks.

Q.1	(a)	What is combinatorial chemistry? Discuss in detail about different	06
	(b) (c)	methodologies used for synthesis? Explain Hansch Linear Free Energy Relationship model in drug design? Explain the Molecular modeling strategies and its applications?	05 05
Q.2	(a)	Give the SAR of quinolone antibacterial? Draw the scheme of synthesis of ciprofloxacin?	06
	(b) (c)	Write a note on Computer Aided Drug Design? Give the synthesis of — i) Chloramphenicol ii) Sulphacetamide	05 05
Q.3	(a)	Explain the SAR of sulfonamides? Comments on sulphonamides are not use in presence of pus?	06
	(b) (c)	Discuss in detail alkylating agents? Write a short note on aminoglycoside antibiotics?	05 05
Q.4	(a)	Give the method of synthesis & uses of - i) Trimethoprim ii) Norfloxacin	06
	(b) (c)	Classify anti-HIV agents with examples and write a note on protease inhibitors? Explain the SAR of Tetracyclines?	05 05
Q.5	(a)	Define and classify anti-neoplastic agents with examples? Give the synthesis of Tamoxifen?	06
	(b) (c)	Discuss on the natural products used as anti-neoplastic agents? Write a short note on antifungal agents?	05 05
Q. 6	(a)	Define and Classify antimalarial with suitable examples of each class? Give synthesis and mode of action of chloroquine?	06
	(b) (c)	Write a short notes on Antiamoebic agents? Give the synthesis of — i) Amandatine ii) Fluorouracil	05 05
Q.7	(a)	Classify antitubercular agents with examples? Explain the MOA of first line antitubercular agents? Give the scheme of synthesis of ethambutol?	06
	(b) (c)	Write the degradation of penicillin with structures? Write a note on anthelmintics?	05 05
